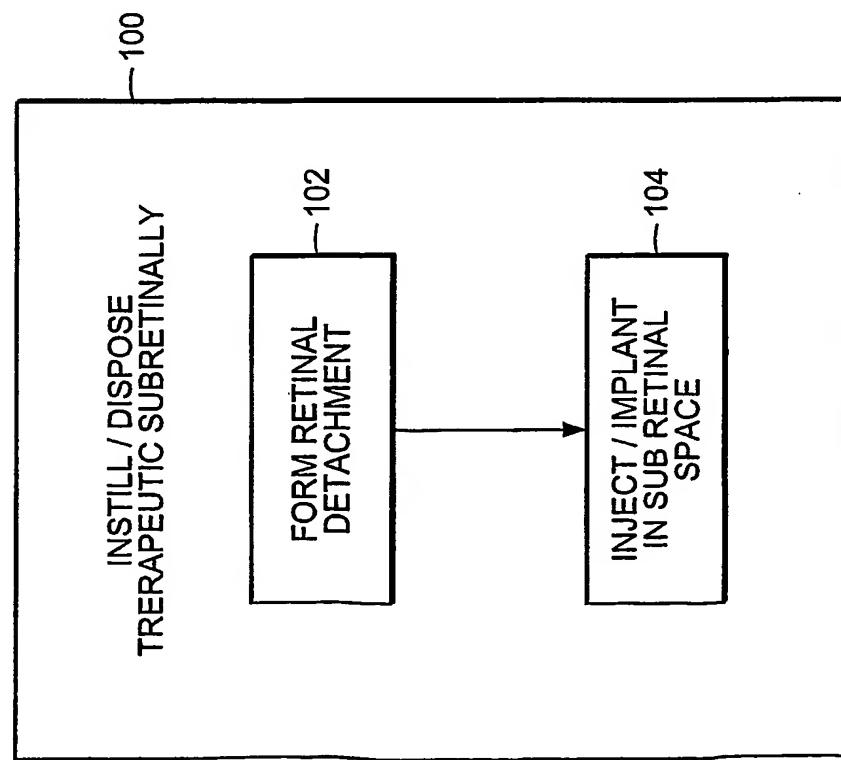
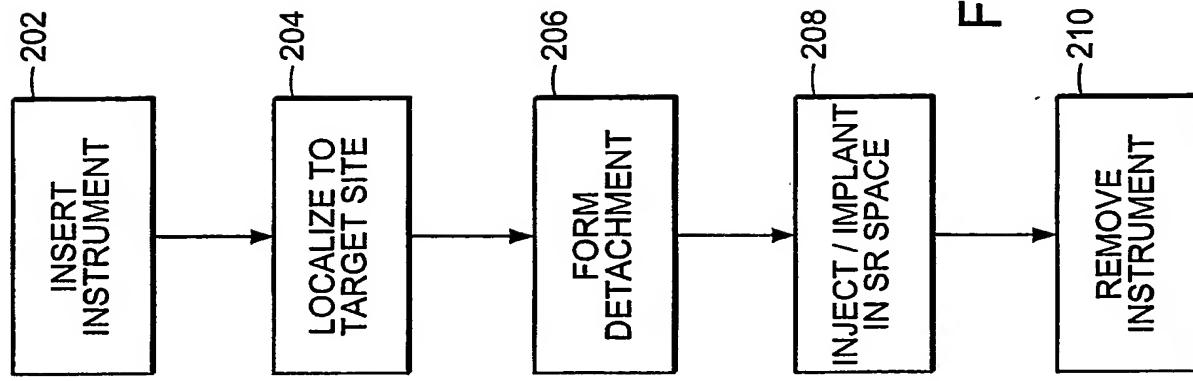


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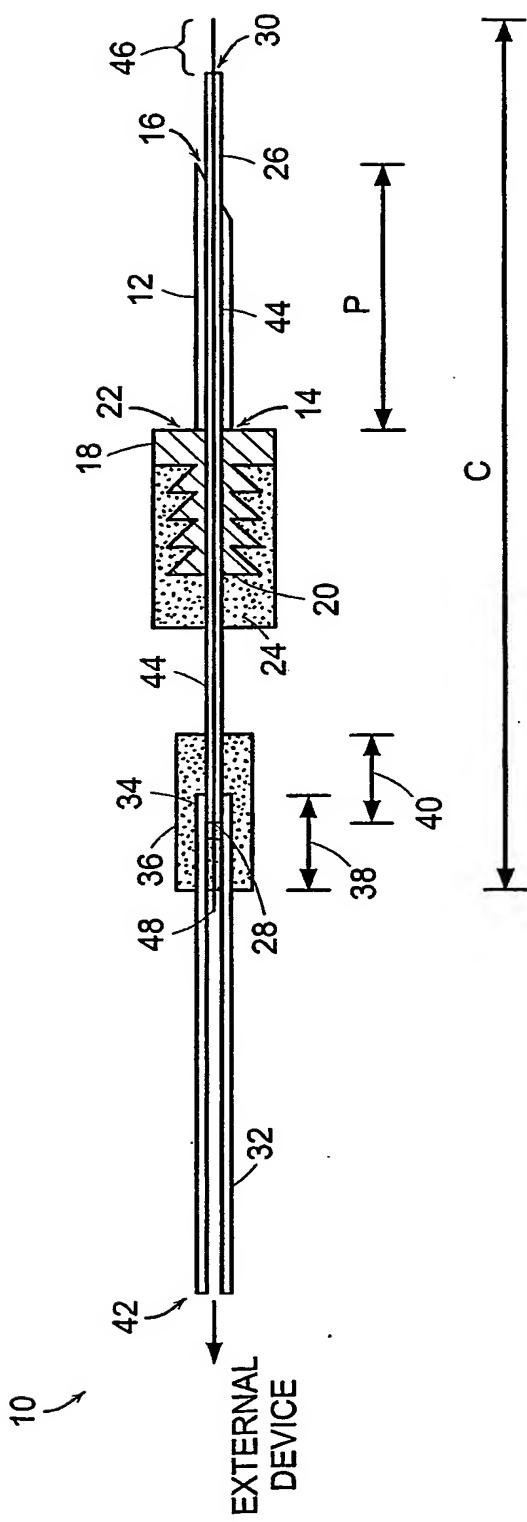


FIG. 3A

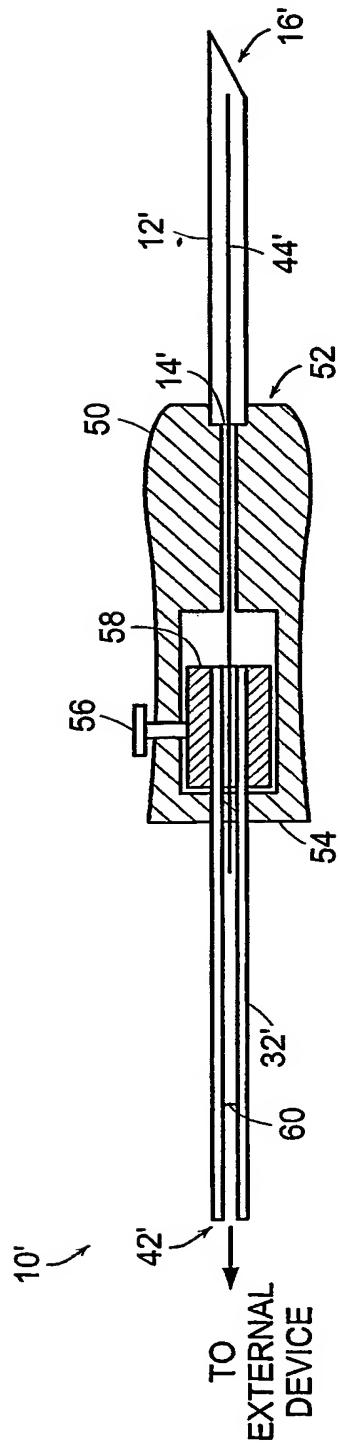
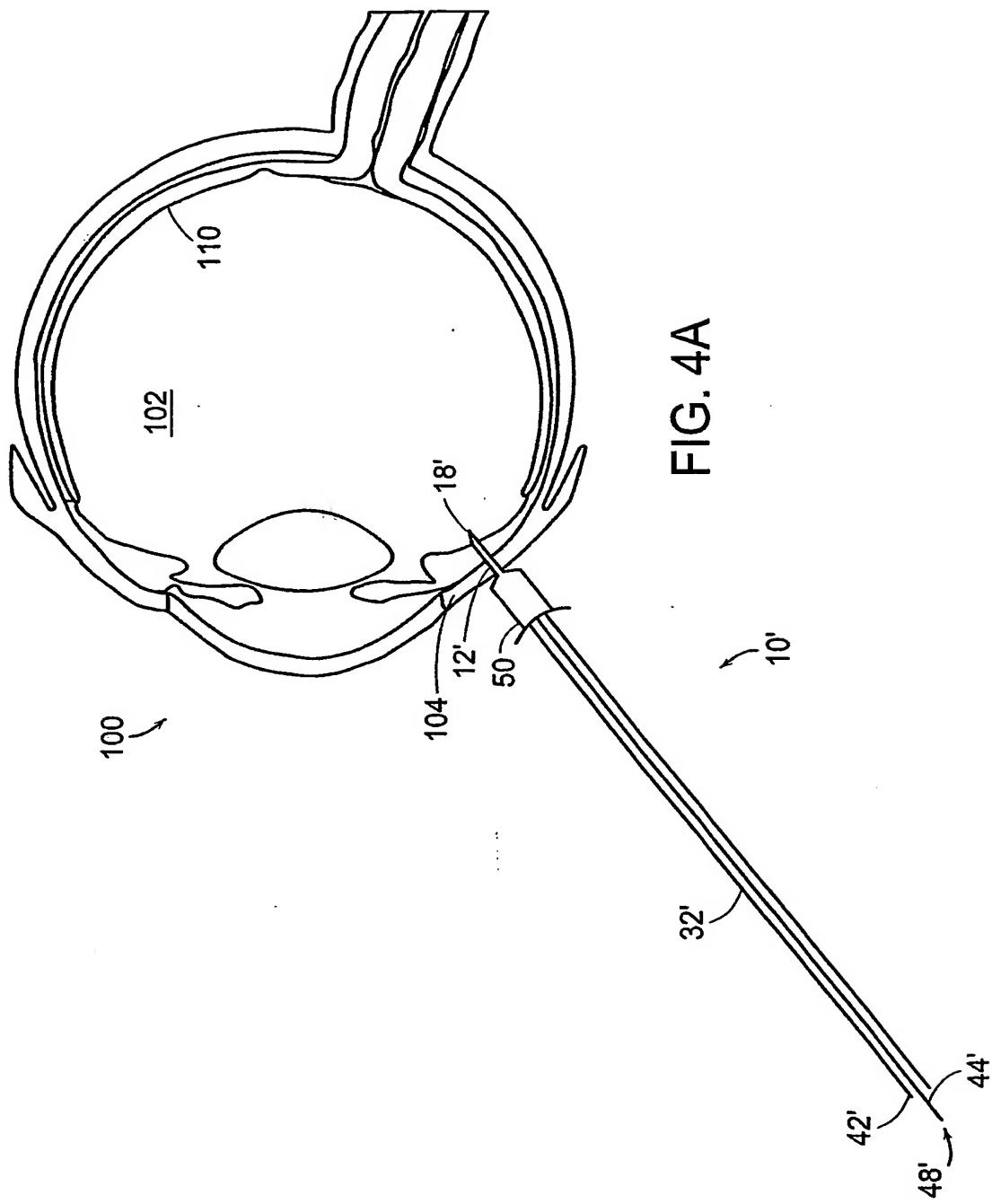


FIG. 3B

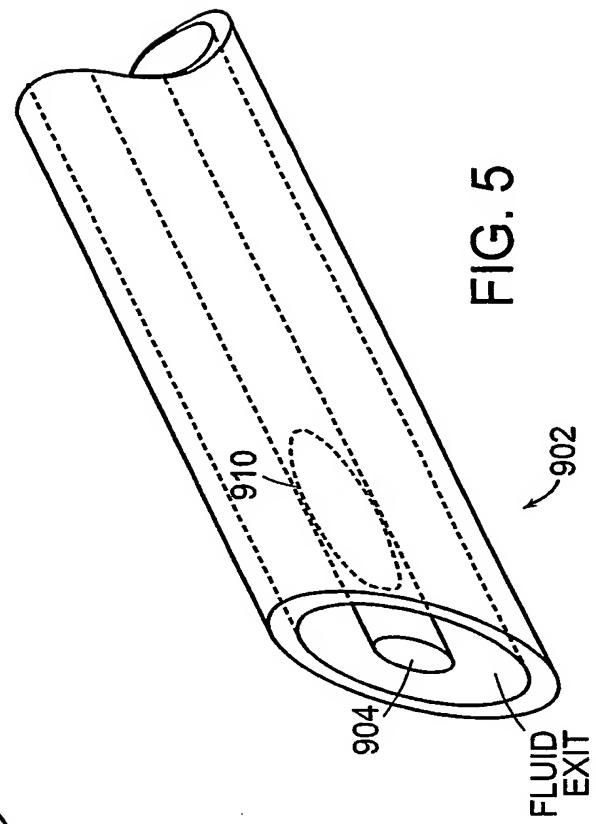
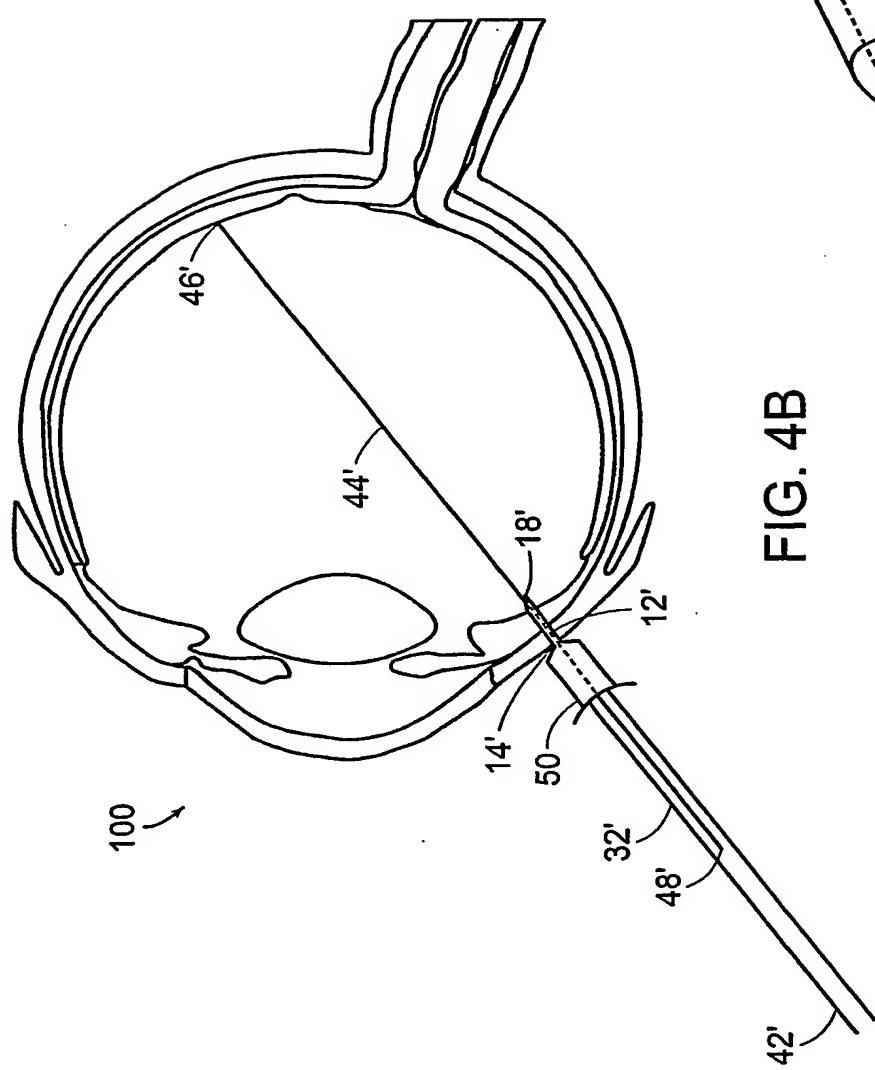
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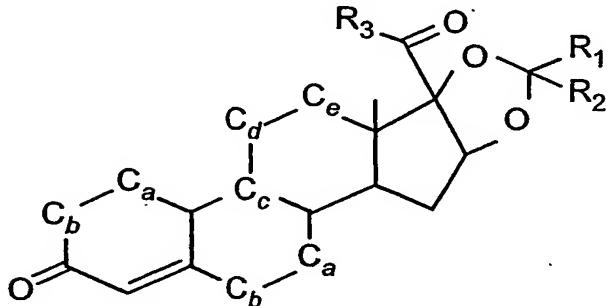


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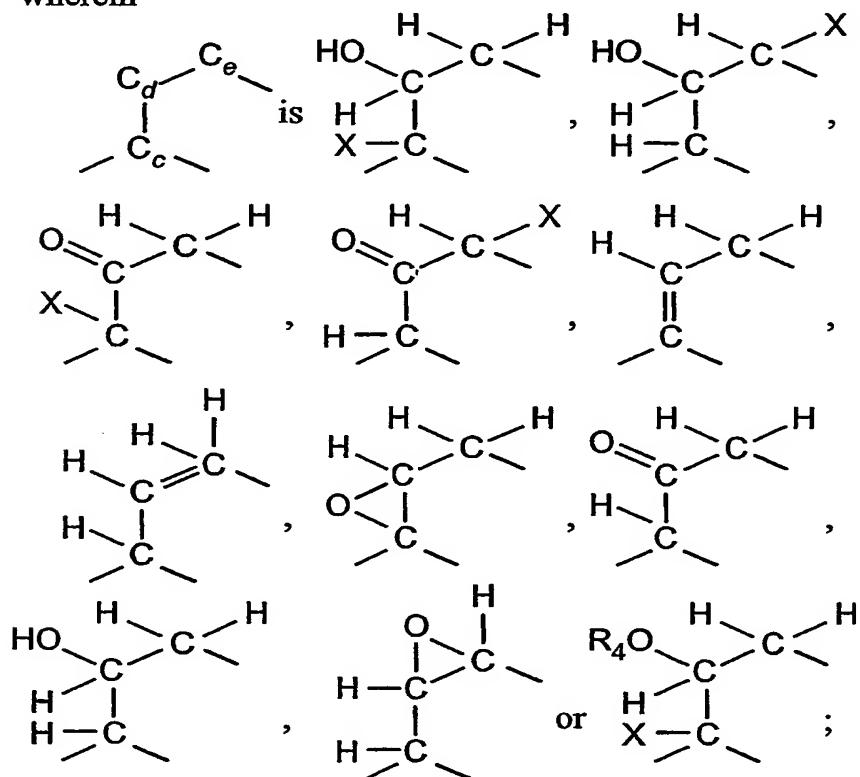
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11-substituted 16 α , 17 α -substituted methylenedioxy steroids of the formula

wherein

R₁ and R₂ are hydrogen or alkyl;

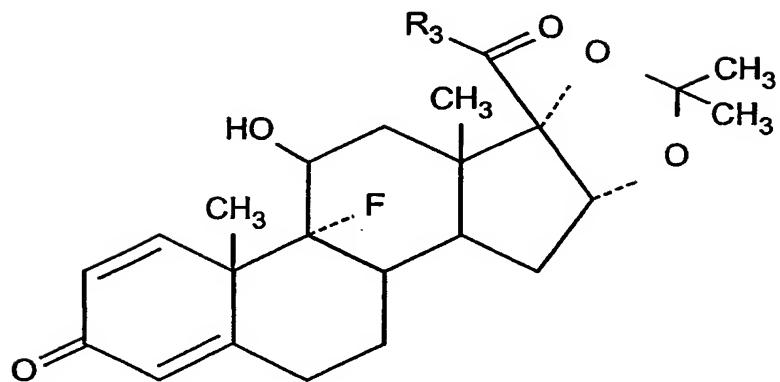
-C_a-C_b- is -CH₂-CH₂-,
 -CH=CH-, -CH₂-CH- or -CH=C-;
 CH₃ CH₃

R₃ is methyl, hydroxymethyl or alkylcarbonyloxymethyl, methylaminoalkylenecarbonyloxymethyl, or phenylamino alkylene carbonyloxymethyl; R₄ is alkanoyl; and X is halogen.

FIG. 6A

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compounds of the formula



wherein R_3 is hydroxymethyl, phenylcarbonylaminoisopropylcarbonyloxymethyl, or 2,2-dimethylpropylcarbonyloxymethyl.

FIG. 6B

cystalline 9-fluoro-11, 21-dihydroxy-16, 17-[1-methylethyldinebis(oxy)]pregna-1, 4-diene-3, 20-dione:

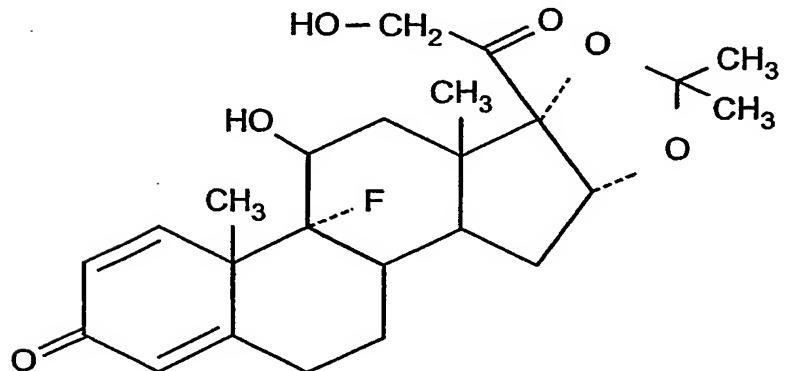


FIG. 6C

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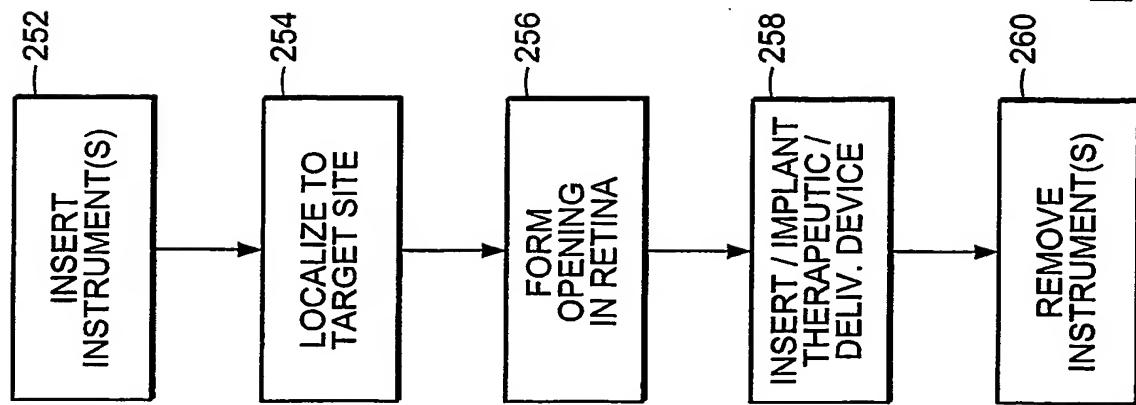


FIG. 8

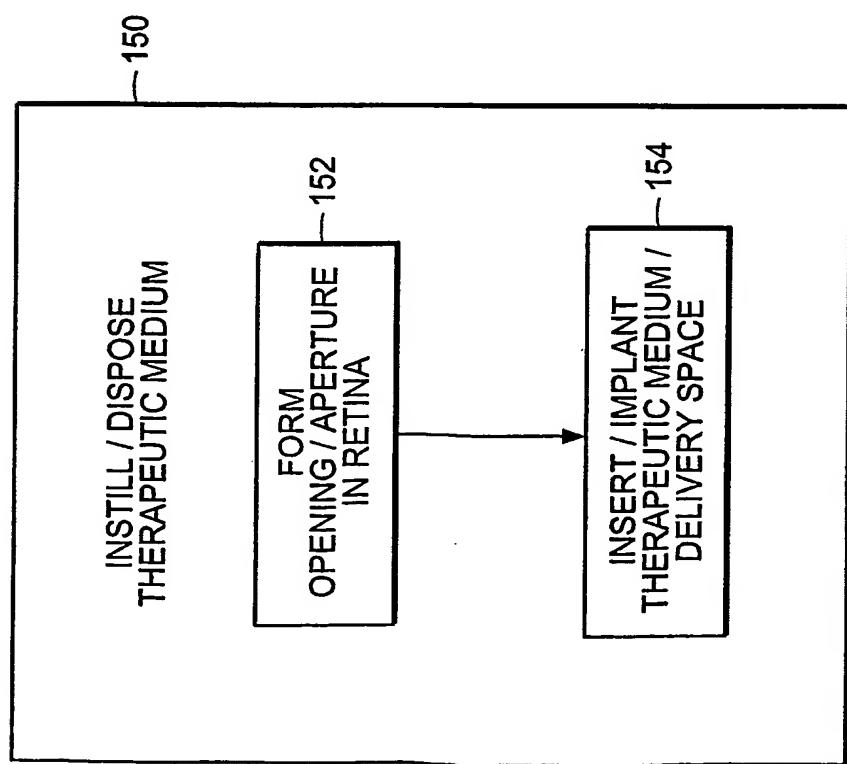


FIG. 7